

I CLAIM:

1. A self-propelled vessel for transporting floating  
5 objects, comprising separate bow and stern sections adapted to be  
removably fastened together using mechanical means to form the  
vessel alone and also to be separated and fastened mechanically  
to a floating object to form a vessel incorporating said floating  
object as a midship section to transport same, with said bow  
10 section comprising at least one anchor, propulsion means, at  
least one power supply and control means to operate same and a  
crane unit, and said stern section comprising a propulsion  
system, at least one anchor, a pilot house and controls for said  
vessel.

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2. The vessel of claim 1 which is adapted to incorporate as  
said midship section an assemblage of floating boxes which are  
mechanically secured together to form said floating object.

20 3. The vessel of claim 2 wherein said boxes comprise at  
least one material selected from the group consisting of  
concrete, metal, wood, plastic and polymeric composites.

4. The vessel of claim 3 wherein said boxes are precast

concrete boxes.

5. The vessel of claim 3 wherein said boxes are rectangular parallelepipeds.

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6. The vessel of claim 5 wherein said boxes comprise a plurality of boxes having at least two different sizes and sets of proportions which permit said boxes to be conveniently shipped together by intermodal means and assembled together to form said midship section of said vessel and to form shoreline structures when removed from said vessel.

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7. The vessel of claim 2 wherein at least a portion of said boxes have a hexagonal cross section.

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8. The vessel of claim 7 wherein said boxes having a hexagonal cross section comprise at least one material selected from the group consisting of concrete, metal, wood, plastics and polymeric composites.

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9. The vessel of claim 8 wherein said boxes having a hexagonal cross section are formed of precast concrete comprising at least one of metallic and fibrous reinforcements.

10. The vessel of claim 9 wherein the metallic reinforcement for said precast concrete boxes comprises supports cast into at least a portion of the outer edges of said boxes.

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11. The vessel of claim 10 wherein said supports comprise angle iron stock.

12. The vessel of claim 9 wherein said boxes having  
10 hexagonal cross sections contain metallic reinforcement in at least a portion of the top, bottom and side surfaces thereof.

13. The vessel of claim 12 wherein said metallic reinforcement comprises materials selected from the group  
15 consisting of cables, reinforcing bars and steel beams having various cross sections.

14. The vessel of claim 1 which is adapted to incorporate as said midship section a floating drydock.

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15. The vessel of claim 4 wherein said midship section comprises a plurality of precast concrete boxes having a hexagonal cross section, the majority of which are oriented vertically and interconnected by mechanical means to form a

honeycomb structure.

16. The vessel of claim 15 wherein said mechanical means  
comprise connectors to interconnect said boxes to each other and  
5 tensioning cables to maintain the structure of said midship  
section.

17. The vessel of claim 15 wherein said midship section  
further comprises precast concrete boxes having a half hexagonal  
10 cross section which are interconnected to the outer portions of  
said midship section to form flush surfaces for said section.

18. The vessel of claim 1 wherein at least a portion of  
said bow section, said stern section and said midship section  
15 comprise pluralities of precast concrete boxes having a hexagonal  
or half-hexagonal cross section which are assembled in a vertical  
orientation and interconnected in honeycomb arrays to form the  
structure of said bow, stern and midship sections.

20 19. A vessel comprising separable bow, stern and midship  
sections, each of said sections being constructed primarily of a  
plurality of precast concrete boxes having hexagonal or half-  
hexagonal cross-sections, said boxes being oriented vertically  
and interconnected by mechanical means to form said bow, stern

and midship sections into an integrated hull structure of said vessel.

20. The vessel of claim 19 which is self-propelled, said  
5 bow section having at least one anchor, propulsion means, at  
least one power supply and control means to handle same and at  
least one crane unit for handling cargo, with said stern section  
comprising a pilot house, at least one anchor, at least one  
propulsion unit and control means for said vessel.

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21. The vessel of claim 19 wherein a portion of said boxes  
forming said midship section are adapted to serve as tanks for  
fuel, water and ballast.

15 22. The vessel of claim 19 wherein said midship section  
comprises cargo-carrying sections and at least one crane to  
handle said cargo.

20 23. The vessel of claim 19 wherein a plurality of said  
boxes in said bow, midship and stern sections are adapted for  
special purposes comprising operations, habitability and weapons.

24. The vessel of claim 19 wherein at least said midship  
section is large enough and is adapted to serve as a mobile base

for at least one type of vehicle selected from the group consisting of large ships, smaller vessels, small craft, submarines, submersibles, hovercraft and aircraft.